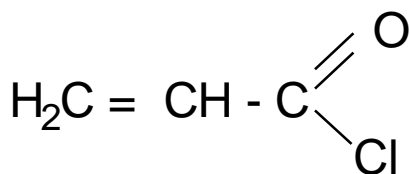


Data Sheet Nr 1850 J

ACRYLOYL-CHLORIDE



Molecular formula:	C ₃ H ₃ Cl O
Molecular weight:	90.5
CAS number	814-68-6
EU number	212-399-0

Other name

2-propenoyl chloride

Aspect

Liquid with a pungent odor.

Stabilized.

Physical properties

Density d₄20: 1,12

Boiling point: 75 °C

Solubility: soluble in usual organic solvents (acetone, chloroform, toluene, THF)

Chemical properties

- Reacts by hidrolisis, yielding hydrochloric acid and acrylic acid.
- Reacts with amines yielding amides.
- Reacts with alcohols yielding esters.
- Reacts with mercaptanes yielding esters.

Uses

- Intermediate for pharmaceutical and fine chemical synthesis
- Intermediate for polymerization.

ACRYLOYL CHLORIDE — Framochem

Specifications

Parameter	Guaranteed Value	Method	Operating Procedure
Aspect	Clear, or slightly coloured liquid	Visual	
Assay	≥ 97.0 %	Gas chromatography	GC- 430
Phosgene	≤ 0.2 %	Iodometry	I - 230
Acidity (HCl)	≤ 0.2 %	Acidimetry	A -220
Iron	≤ 5 ppm	Colorimetry	C - 810
Acrylic acid	≤ 1 %	Gas chromatography	GC- 430
Acrylic anhydride	≤ 1 %	Gas chromatography	GC- 430
Standard stabiliser: 200 ppm phenothiazine or customers request: other amount of phenothiazine or 23-29 ppm chloropromazine			

PACKAGING

- Polyethylene lined metal drum, containing 25 kg or 50 kg.

Handling precautions

- Physico-chemical hazard

Flash point (tag closed cup): -4 °C
Flammable.

- Health hazards

LD 50 (ingestion rat): 500 mg/kg = harmful
Corrosive: causes burns
Irritating on skin, mucuous membranes and eyes.

- Recommendations

Avoid the contact with alkalines.

Wear gloves, glasses, mask and protective clothes.

If eyes are contaminated, wash immediately with clean water for at least 15 minutes.

If concentrated vapors are inhaled, carry the person into fresh air out of the contaminated area.

In both cases, call a physician.

Neutralize by reaction with basic solution

STORAGE

The product must be stored in its closed original drum, under refrigeration, below 0°C.

However, in case of prolonged storage, after 12 months, it is recommended to check again the product before use, by measuring typical parameters (color, anhydride, hydrochlorid and acrilic acid level).

TRANSPORT

Refrigerating, more see on MSDS

Nr 1850 J — November, 2014